

aerodynamically shaped standoff vanes space apart the upper section from a brake rotor, wherein the leading edge and the trailing edge are curved; and

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a plurality of vents formed between adjacent aerodynamically shaped standoff vanes, wherein the vents are circumferentially distributed on the upper section, and air located within said mounting hat and air deflected from said brake rotor are induced to substantially flow through the plurality of vents in a direction outward from a radial interior of said mounting hat to a radial exterior of said mounting hat.

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21. (Three Times Amended) A brake rotor comprising:
a rotor,

a hub coupled to the rotor, said hub having a plurality of aerodynamically shaped standoff vanes each having a leading edge, a trailing edge, a top, a bottom and a plurality of vents formed between adjacent aerodynamically shaped standoff vanes, wherein the vents are circumferentially distributed between the hub and the rotor, air located within said hub and air deflected from said rotor are induced to substantially flow through the plurality of vents in a direction outward from a radial interior of said hub to a radial exterior of said hub, the aerodynamically shaped standoff vanes space apart the hub from the rotor, and the leading edge and the trailing edge are curved.